



EGit and JGit 2.3 Release Review

Chris Aniszczyk (zx@twitter.com)

Shawn Pearce (sop@google.com)

Matthias Sohn (matthias.sohn@sap.com)

About



EGit is an Eclipse Team provider for Git. Git is a distributed SCM, which means every developer has a full copy of all history of every revision of the code, making queries against the history very fast and versatile. The EGit project is implementing Eclipse tooling for the JGit Java implementation of Git.

JGit is an EDL (BSD) licensed, lightweight, pure Java library implementing Git.



Introduction

EGit and JGit are Technology sub projects.

- <http://eclipse.org/egit>
- <http://eclipse.org/jgit>

This release is the 14th release for both projects at Eclipse.org, and the goal is to build an Eclipse community around Git.



Committer Diversity

There are many individuals and companies involved with EGit (19 committers) and JGit (12 committers)

- Ageto
- CollabNet
- Dewire
- GitHub
- Google
- IBM
- Twitter
- SAP
- Tasktop



JGit Features

- Deleted the iplog generator which was replaced by Eclipse Foundation's automatic IP log generator
- New tree filter for user-visible changes between two indexes
- Improved handling of Gerrit Changelds
- Improved handling of checkout conflicts
- Performance Improvements
 - Speed up handling of paths in the CommitCommand
 - Speed up PathFilterGroup for large sets of paths
- Many bug fixes

Complete list of improvements in [New and Noteworthy](#)



EGit Features

- "Fetch From Gerrit" recognizes gerrit fetch command contained in clipboard
- Added git clean action for repositories
- EGit now gracefully ignores linked resources
- Enhanced "Show In" support
- Improved support for logical models in "Compare With" and "Synchronize"
- Support git merge --no-ff as an EGit preference
- Make Merge Tool also usable for conflicts of stashing & unstashing
- Customizable font and colors of headlines in diff tab of commit viewer
- History View: filtered files are now highlighted in file diff viewer
- Commit Dialog: use filtered tree to enable quick filtering of file list
- Auto-ignore of derived resources

Performance improvements

- Only refresh projects with changed resources
- Synchronize View: several improvements

- Many bug fixes
- minimum supported Eclipse platform version for EGit 2.3 is 3.7.2

Find complete list of improvements in [New and Noteworthy](#)

GitHub Connector Features



- Updated build to use Tycho 0.16



Non Code Aspects

User Guide and extensive Contributor Guide

- http://wiki.eclipse.org/EGit/User_Guide
- http://wiki.eclipse.org/EGit/GitHub/User_Guide
- http://wiki.eclipse.org/JGit/User_Guide
- http://wiki.eclipse.org/EGit/Contributor_Guide
- <http://wiki.eclipse.org/EGit/GitHub/ContributorGuide>

Lively discussion on mailing lists and EGit forum show a growing community:

- <http://dev.eclipse.org/mhonarc/lists/jgit-dev/maillist.html>
- <http://dev.eclipse.org/mhonarc/lists/egit-dev/maillist.html>
- http://www.eclipse.org/forums/index.php?t=thread&frm_id=48



Bugzilla (as of 2013-02-11)

- JGit

- 93 bugs open, 52 enhancements
- 14 bugs & 0 enhancements fixed since last release

- EGit

- 673 bugs open, 263 enhancements
- 54 bugs & 4 enhancements fixed since last release

Features EGit 2.3

Git Commands					EGit UI & Team API Support
add	format-patch	shortlog	relink	rev-parse	History View
am	gc	show	remote	show-branch	Repositories View
archive	grep	stash	repack	verify-tag	Staging View
bisect	init	status	replace	whatchanged	Compare Editor (3 way)
branch	log	submodule	annotate	.gitignore	Merge Editor (2 way)
bundle	merge	tag	blame	daemon	Apply Patch
checkout	mv	config	cherry		Create Patch
cherry-pick	notes	fast-export	count-objects		Mylyn Integration
clean	pull	fast-import	difftool		Synchronize View
clone	push	filter-branch	fsck		Gerrit Integration
commit	rebase	mergetool	get-tar-commit-id		
describe	reset	pack-refs	help		
diff	revert	prune	merge-tree		
fetch	rm	reflog	rerere		

supported partial missing irrelevant



Committers - JGit

- Chris Aniszczyk (Twitter)
- Christian Halstrick (SAP)
- Colby Ranger (Google)
- David Borowitz (Google)
- Gunnar Wagenknecht (Ageto)
- Kevin Sawicki (GitHub)
- Mathias Kinzler (SAP)
- Matthias Sohn (SAP)
- Robin Rosenberg (Dewire)
- Sasa Zivkov (SAP)
- Shawn Pearce (Google)
- Stefan Lay (SAP)



Committers - EGit

- Andrew Niefer (IBM)
- Benjamin Muskalla (Tasktop)
- Chris Aniszczyk (Twitter)
- Christian Halstrick (SAP)
- Dani Megert (IBM)
- Dariusz Luksza (CollabNet)
- Gunnar Wagenknecht (Ageto)
- Jens Baumgart (SAP)
- Kevin Sawicki (GitHub)
- Mathias Kinzler (SAP)
- Matthias Sohn (SAP)
- Mik Kersten (Tasktop)
- Mykola Nikishov (Independent)
- Remy Suen (IBM)
- Robin Rosenberg (Dewire)
- Robin Stocker (Independent)
- Shawn Pearce (Google)
- Stefan Lay (SAP)
- Tomasz Zarna (Tasktop)



Community

Significant new code contributions from the community in 2.3

Gerrit Code Review: <http://git.eclipse.org/r/>

- JGit

- no new CQs this release

- EGit

- CQ 6965, Francois Rey: [Gracefully ignore linked resources](#)
- CQ 6984, Markus Duft (Salomon): [EGit clean command](#)

IP Logs



- JGit & EGit

- https://bugs.eclipse.org/bugs/show_bug.cgi?id=399437



Schedule

- 2.3 - February 22, 2013 (Juno SR2)
- 2.4 or 3.0 - June 2013 (Kepler)



Project Plan

Available at

- <http://eclipse.org/projects/project-plan.php?projectid=technology.egit>
- <http://eclipse.org/projects/project-plan.php?projectid=technology.jgit>

Themes

- Usability
- Enable use without command-line git
- Documentation Improvements
- Building a Community